

CLAIMS

We claim:

1. A generator structure, comprising:

an enclosure having first and second spaced sidewalls interconnected by first and second end walls so as to define an interior for receiving an engine and an alternator therein;

a roof structure positioned on the enclosure and including:

an eave portion having an inlet communicating with the ambient air external of the generator structure, an outlet communicating with the interior of the enclosure and an input flow path therebetween; and

an attic portion having an inlet communicating with the interior of the enclosure, an outlet communicating with ambient air external of the generator structure and an exit flow path therebetween; and

an air flow generator positioned within the interior of the enclosure for drawing ambient air through the inlet flow path in the eave portion of the roof structure into the interior of the enclosure and for urging air from the interior of the enclosure through the exit flow path in the attic portion of the roof structure and out of the generator structure.

2. The generator structure of claim 1 further comprising a muffler operatively connected to the engine, the muffler positioned within the exit flow path.

3. The generator structure of claim 1 further comprising a radiator positioned within the interior of the enclosure between the engine and the air flow generator, the air flow generator drawing air through the radiator.

4. The generator structure of claim 1 wherein the air flow generator is a fan.

5. The generator structure of claim 1 wherein the attic portion includes a second inlet communicating with the interior of the enclosure, a second outlet communicating with ambient air external of the generator structure and a second exit flow path therebetween.

6. The generator structure of claim 5 further comprising a second air flow generator positioned within the interior of the enclosure for drawing ambient air through the inlet flow path in the eave portion of the roof structure into the interior of the enclosure and for urging air from the interior of the enclosure through the second exit flow path in the attic portion of the roof structure and out of the generator structure.

7. The generator structure of claim 1 wherein the eave portion of the roof structure has a second inlet communicating with the ambient air external of the generator structure and a second flow path between the second inlet and the outlet of the eave portion.

8. The generator structure of claim 1 further comprising a base for supporting the enclosure above a supporting surface.

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9. A generator structure, comprising:

an enclosure having first and second spaced sidewalls interconnected by first and second end walls so as to define an interior for receiving an engine and an alternator therein;

a roof structure supported on the end walls of the enclosure, the roof structure including:

an upper panel having a first opening therethrough and first and second sides generally parallel to the sidewalls of the enclosure;

first and second side panels extending from corresponding sides of the upper panel such that each side panel partially overlaps a corresponding sidewall of the enclosure, the first side panel and the first sidewall defining a first inlet

therebetween and the second side panel and the second sidewall defining a second inlet therebetween; and

a separation panel extending between the side panels such that the separation panel and the upper panel define an attic chamber therebetween; the separation panel and the first end wall define a first attic inlet to allow the interior of the enclosure to communicate with the attic chamber; and the separation panel and the second end wall define a second attic inlet to allow for communication between the interior of the enclosure and the attic chamber; and

an air flow generator positioned within the interior of the enclosure for drawing ambient air through the first and second inlets in the roof structure and into the interior of the enclosure and for urging air from the interior of the enclosure through the attic chamber in the roof structure and out of the generator structure through the first opening in the upper panel.

10. The generator structure of claim 9 further comprising a muffler operatively connected to the engine, the muffler positioned within the attic chamber in the roof structure.

11. The generator structure of claim 9 further comprising a radiator positioned within the interior of the enclosure between the engine and the air flow generator, the air flow generator drawing air through the radiator.

12. The generator structure of claim 9 wherein the air flow generator is a fan.

13. The generator structure of claim 9 wherein the upper panel of the roof structure includes a second opening therethrough and wherein the separation panel divides the attic chamber into a first portion that communicates with the first opening in the upper panel and a second portion that communicates with the second opening in the upper panel.

14. The generator structure of claim 13 further comprising a second air flow generator positioned within the interior of the enclosure for drawing ambient air through the first and

second inlets in the roof structure and into the interior of the enclosure and for urging air from the interior of the enclosure through the attic chamber in the roof structure and out of the generator structure through the second opening in the upper panel.

15. The generator structure of claim 9 further comprising a base for supporting the enclosure above a supporting surface.

16. A generator structure, comprising:

an enclosure having first and second spaced sidewalls interconnected by first and second end walls so as to define an interior;

first and second generator sets positioned within the interior of the enclosure, each generator set including an engine, an alternator driven by the engine and a radiator operatively connected to the engine;

a roof structure supported on the end walls of the enclosure, the roof structure including:

an upper panel having first and second openings therethrough and first and second sides generally parallel to the sidewalls of the enclosure;

first and second side panels extending from corresponding sides of the upper panel such that each side panel partially overlaps a corresponding sidewall of the enclosure, the first side panel and the first sidewall defining a first inlet therebetween and the second side panel and the second sidewall defining a second inlet therebetween; and

a separation panel extending between the side panels such that the separation panel and the upper panel define an attic chamber therebetween; the separation panel and the first end wall define a first attic inlet to allow the interior of the enclosure to communicate with the attic chamber; and the separation panel and the second end wall define a second attic inlet for allowing for communication between the interior of the enclosure and the attic chamber;

a first air flow generator positioned within the interior of the enclosure for drawing ambient air through the first and second inlets in the roof structure, across the engine of the first generator set and through the radiator of the first generator set and for urging air from the interior of the enclosure through the attic chamber in the roof structure and out of the generator structure through the first opening in the upper panel; and

a second air flow generator positioned within the interior of the enclosure for drawing ambient air through the first and second inlets in the roof structure, across the engine of the second generator set and through the radiator of the second generator set and for urging air from the interior of the enclosure through the attic chamber in the roof structure and out of the generator structure through the second opening in the upper panel.

17. The generator structure of claim 16 further comprising a muffler operatively connected to the engine, the muffler positioned with the attic chamber in the roof structure.

18. The generator structure of claim 16 further comprising a base for supporting the enclosure above a supporting surface.

19. The generator structure of claim 16 wherein each air flow generator is a fan.

20. The generator structure of claim 16 wherein the separation panel divides the attic chamber into a first portion that communicates with the first opening in the upper panel and a second portion that communicates with the second opening in the upper panel.

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